MEDVEDEV, Nikolay Akimovich; SPRINTSIN, M.N., red.; KIMMEL', L.S., red. izd-va; BACHURINA, A.M., tekhn. red.

[Forests of the European North and their industrial use]Lesa Evropeiskogo Severa i ikh promyshlennaia ekspluatatsiia. Moskva, Goslesbumizdat, 1962. 124 p. (MIRA 16:2)

(Russia, Northern—Forests and forestry)

(Russia, Northern—Lumbering)

SPRINTSYN, M.N.; AMALITSKIY, V.M.[deceased]; DENIS'YEV, V.I.; ZHUKOV,
A.M.; LIKHOVIDOV, N.K.; SHCHEDRIN, B.Ye.; KAFTANOVSKIY, G.M.;
SUKHANOVSKIY, A.I.; TSVETKOV, V.A.[deceased]; MITEL'MAN, Ye.L.;
KALASHNIKOV, P.L.; ANDREYEV, I.I., retsenzent; SALTYKOV, M.I.,
otv. red.; SLUTSKER, M.Z., red. izd-va; GRECHISHCHEVA, V.I.,
tekhn. red.

[Handbook for the logging enterprise economist]Spravochnik ekonomista Lespromkhoza. Moskva, Goslesbumizdat, 1962. 291 p. (MIRA 16:1)

(Lumbering-Handbooks, manuals, etc.)

SPRINZL, M.

CANDERSO VALLA

THE PERSON DOES NOT THE MAN ASSESSMENT NO.

Anatitute of organic chemistry, Hovsk institute of Vochwology, Bratislava, (for all).

cattens, To II, Severaber 1965, op 3650-3667.

"synthesis and infrared spectra of disothicoganates of the aryl and arylmethyl type."

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5/11/3	MINENK	Method	of insula	N, D.A.; N I. ting suspended.	asion d			galvani	parts.	
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CIA-RDP86-00513R001652730001-6

MINENKO, V.I., kandidat khimicheskikh nauk; TSARIKHIN, D.A., kandidat tekhnicheskikh nauk, dotsent; NECHIPORENKO, N.N., kandidat tekhnicheskikh nauk, dotsent; PUSTOVALOV, V.I., inzhener; SPRISHEVSKIY, A.I., kandidat tekhnicheskikh nauk.

Insulated hooks for electroplating machine-parts. Vest. mash. 36 no.8:62-63 '56. (MLRA 9:10)

1. Khar'kovskiy velosipednyy savod. (Electroplating)

mangang panggan dan kanasi sanggang kapatan panggangganggan kapatan panggan kanasi sanggan sanggan banasa ka

25(2) AUTHOR:

Sprishevskiy, A. I.

SOV/32-25-9-43/53

TITLE:

Electronic Automatic Cutout for Machines for the Testing of

Contact Resistance

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 9, pp 1136-1137 (USSR)

ABSTRACT:

So far, in contact resistance tests, the fatigue crumbling of pittings was determined on the basis of the noise change of the testing machine or by a visual examination of the pitting, and then the electromotor was switched off. An automatic control of the cutout of the machine at the instant of the crumbling of the pitting was developed. For this purpose, an electronic automatic cutout was designed. The basic scheme of the latter was suggested by the Candidate of Technical Sciences I. M. Sakhon'ko, while the scheme of the necessary amplifier was worked out by Engineer V. I. Shchipunov and D. Ya. Pavlov. The mode of operation of the cutout is based on the conversion of the mechanical vibration arising from the destruction of the pitting into electric signals which act on an electronic scheme and thus stop the electromotor by means of a relay. A piezoelectric transmitter (Fig 1)

Card 1/2

SPRISHEVERIY B. 1.

PHASE I BOOK EXPLOITATION

SOV/5105

- Nauchno-tekhnicheskaya konferentsiya po voprosam povysheniya iznosostoykosti i sroka sluzhby mashin.
- Povysheniye iznosostoykosti i sroka sluzhby mashin. t. 2 (Increasing the Wear Resistance and Extending the Service Life of Maing the Wear Resistance and Extending the Service Life of Machines. v. 2) Kiyev, Izd-vo AN UkrSSR, 1960. 290 p. 3,000 copies printed.(Series: Its: Trudy, t. 2)
- Sponsoring Agency: Vsesoyuznoye nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Tsentral'noye i Kiyevskoye oblastnoye pravleniya. Institut mekhaniki AN UkrSSR.
- Editorial Board: Resp. Ed.: B. D. Grozin; Deputy Resp. Ed.:
 D. A. Draygor; M. P. Braun, I. D. Faynerman, I. V. Kragel'skiy;
 Scientific Secretary: M. L. Barabash; Ed. of v. 2:
 Ya. A. Samokhvalov; Tech. Ed.: N. P. Rakhlina.
- PURPOSE: This collection of articles is intended for technical personnel of the machine industry and for workers of scientific

Card 1/9

Increasing the Wear Resistance (Cont.)

SOV/5105

research institutes and design and planning organizations.

COVERAGE: The collection contains papers presented at the Third Scientific Technical Conference held in Kiyev in September 1957 on problems of increasing the wear resistance and extending the service life of machines. The conference was sponsored by the Institut stroitel'noy mekhaniki AN UkrSSR (Institute of Structural Mechanics of the Academy of Sciences Ukrainian SSR), and by the Kiyevskaya oblastnaya organizatsiya nauchno-tekhnicheskogo obshchestva mashinostroitel 'noy promyshlennosti (Kiyev Regional Organization of the Scientific Technical Society of the Machine-Building Industry). Papers presented at the conference were published in two volumes. The first volume contains papers presented at the plenary session and at the conference section on "Wear of Metals and Methods of Investigation". The second volume contains papers presented at the conference section on "Methods of Extending the Service Life of Machine Parts". These papers discuss mechanical, chemical, and electrolytic methods of increasing the durability (wear resistance and fatigue strength)

-Card-2/-9

Increasing the Wear Resistance (Cont.)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652730001-6"

of metallic and nonmetallic machine parts. Only methods which have found industrial application are reviewed. In addition to members of the editorial board the following persons participated in the preparation of the papers for publication: Professor M. P. Braun, Professor D. V. Vaynberg, Candidate of Technical Sciences I. P. Petrenko, Engineer M. D. Sinyavskaya, Candidate of Technical Sciences V. A. Shevchuk, Candidate of Technical Sciences V. N. Semirog-Orlik, Engineer V. F. Yankevich, Candidate of Technical Sciences M. L. Gorb, and others. References (mostly Soviet) accompany some of the papers.

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Al'shits, I. Ya. L. N. Sushkina.	[Candidate of Technical Sciences], and New Bearing Materials and Coatings	18
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	Formin, G. T. Increasing Wear Resistance and Prolonging Service Life of Parts With Large Cross-Section Area by Surface Hardening After Rapid Heating in Furnaces	g the	57
	Panchenko, N. P. [Candidate of Technical Sciences]. Residual Strain of Rings Made of ShKhl5 Steel	e-	70
	Shevchenko, P. V. [Candidate of Technical Sciences]. vestigation of Damages to the Contact Surface of [Railr Car] Wheels and Measures Taken to Increase Their Streng and Extend Their Service Life	oau	83
	Card 4/9		

s/123/61/000/015/017/032 A004/A101

Grozin, B. D., Panchenko, N. P., Semirog-Orlik, V. N., Sprishevskiy, AUTHORS:

A. I.

- 1 ---

The effect of mechanical operations on the state of the outer layers TITLE:

of antifriction bearings

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 15, 1961, 19, abstract

15B111 (V sb. "Povysheniye iznosostoykosti i sroka sluzhby mashin.

Kiyev, AN UkrSSR, 1960, 61-76) v. 1".

The authors present the results of comprehensive investigations of the effect of mechanical working on the physical state of the outer layers of the antifriction surfaces of antifriction bearing races. Four groups of specimens of bearing races were investigated, the manufacturing technology and processing conditions of which were different. The specimens were subjected to metallographic, electronic microscopic, X-ray structure and spectral analyses; their microhardness was also investigated. During some grinding conditions and other operations carried out after hardening, high temperatures and local pressures are arising, the interaction of which causes structural transformations in the surface

Card 1/2

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The effect of mechanical operations ...

layer. The thermal effect during grinding is different in the field of surface projections and cavities. The projections may undergo a second hardening, while the cavities mainly experience a tempering. The non-homogeneity of the outer layer produces structural stress raisers owing to which micro-destructions are possible in the surface layer. The thermal effect arising during the process of after-hardening operations contributes to the concentration of chromium and carbon at the surface. The initial microgeometry and the shape of the surface being machined affect the temperature gradient of the outer layer. The defective layer originating during the preceding operations cannot always be eliminated by technological finishing operations. The investigation shows the way of developing dependable processing conditions. There are 21 figures.

M. Borts

[Abstracter's note: Complete translation]

Card 2/2

KACHAMOV, N.N.; SPRISHEVSKIY, A.I.; KHASIN, G.A.; BERNSHTEYN, M.L.

What should a modern metallographic microscope be like? Zav.lab. 26 no.6:770-773 160. (MIRA 13:7)

1. Nauchno-issledovatel'skiy i eksperimental'nyy institut podshipnikovoy promyshlennosti (for Kachanov and Sprishevskiy). 2. TSentral'naya zavodskaya laboratoriya Zlatoustovskogo metallurgicheskogo zavoda imeni I.V.Stalina (for Khasin). 3. Moskovskiy institut stali im. I.V.Stalina (for Bernshteyn).

(Microscope)

SPRISHEVSKIY, A.I., kand.takhn.nauk; MAKAROV, L.M., inzh.

Over-all mechanization and automation in the bearing industry. Mekh.
i avtom. proizv. 15 no. 5:1-7 My '61.
(Bearing industry—Technological innovations)

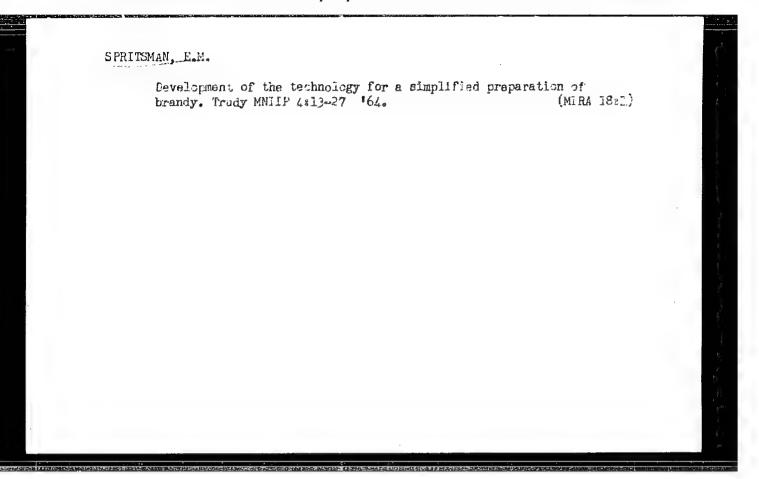
(Automation)

SPRISHEVSKIY, V.I. Bronze Age site at Chust. Sov.etn. no.3:69-76 '54. (MLEA 7:11) (Chust--Bronze Age) (Bronze Age--Chust)

RUBINSKIY, N.; SPRISKOW, V.

Superior operation of a trolley bus service center. Zhil.-kom. khos.5 no.6:16-17 *55. (MIRA 9:1)

1.Director Vterego trelleybusnoge depo Moskvy (for Rubinskiy)
2.Glavnyy inshener trolleybusnogo depo Moskvy (for Spriskov). (Moscow--Trelley buses--Maintenence and repair)



KRONITIS, Yan Yanovich [Kronitis, J.]; ZANDER, R., spets. red.; SPRIVULIS,Z., red.; MIRONOV, A., tekhm. red.

[Manual for collective farm foresters] Spravochnik kolkhoznogo lesovoda. Perevod so 2-go lzd. Riga, Letviiskoe gos. izd-vo, 1959. 446 p. (MIRA 14:10)

(Collective farms) (Foresters)

EGLITIS, Oskars; SPRIVULIS, Z., red.; UDRE, V., tekhn. red.

[Beekeeping equipment] Biskopibas inventars. Riga, Latvijas
Valsts izdevnieciba, 1962. 179 p. (MIRA 16:5)

**Bee culture*)

MELESHKIN, A. [Meleskins, A.], kand. sel'khoz. nauk; SPRIVULIS, Z. [translator]; NEILANDE, A.; red.; AIZUPIETE, M., tekhn. red.

[Best varieties of vegetables, potatoes, and fodder root crops] Darzenu, kartupelu un lopbaribas saknaugu labakas skirnes. Otrais parstradatais un papildinatais izdemums. Riga, Latvijas Valsts izdevnieciba, 1960. 222 p. [In Latvian] (MIRA 14:12) (Potatoes—Varieties) (Root crops—Varieties) (Vegetables—Varieties)

RIHTERS, A; SPRIVULIS, Z., red.; DUNAISKIS, Z., tekhn. red.

[How we prepare for the 22d Congress of the CPSU; achievements on the "Burtnieki" State Farm] PSKP XXII kongresu sagaidot; padomju saimniecibas "Burtnieki" sasniegu: i. Riga, Latvijas Valsts izdevnieciba, 1961. 57 p. (MIRA 15:3) (Communist Party of the Soviet Union—Congresses) (Latvia—State farms)

SKROMANIS, A.; SPRIVULIS, Z., red.; AKE, I., tekhn. red.

[DPR-2 milking unit]Slauksanas agregats DPR-2. Riga, Latvijas
Valsts izdevnieciba, 1961. 88 p. (MIRA 15:12)

(Latvia-Milking machines)

SVIKIS, J.; TO ISEVS, A.; SPRIVULIS, Z., red.

[Mechanization of the protection of plants] Augu aizsardzibas derbu mehanizacija. Riga, Latvijas Valsts izdba, 1963. 167 p. [In Latvian] (MIRA 17:7)

LABRENTS, V. [Labrencis, V.]; ODIN', Ya.[Odins, J.]; SPRIVULIS, Z., red.; ZHAGARS, A., tekhn. red.

[Tables for the calculation of earthwork with trapezoidal and trapezoidal-parabolic cross sections] Tablitsy dlia rascheta zemlianykh rabot pri trapetseidal'noi i trapetseidal'no-parabolicheskoi forme poperechnykh sechenii. Riga, Latviiskoe gos. izd-vo, 1963. 236 p. (MIRA 16:4) (Earthwork-Tables, calculations, etc.)

KLAVINS, J.; SPRIVULIS, Z., red.

[Improve the herd; Low Collective Farm of the Valmiera Agricultural Collective and State Farm Administration as a purebred cattle station] [zkopsim ganampulku: Valmiras kolhozu un padomju saimniecibu razosanas parvalde Lenina kolhozskirnes lopu audzetava. Riga, Latvijas Valsts izd-ba, 1964. 21 p. [In Latvian] (MIRA 17:7)

BEREINE, E.; 1 VILLET, V.; 18 185 Mil., O.; 25 185 Mil., O.;

OTTHER SPRINULS, Z., rea.

[Regular in and maintenance of agricultural rachinety;
Lauksairaleribas mashinu regulesana un kopasna. Rig.,
Latvijas Vausts izd-ba, 1964. 429 p. [In latvian]

(Nuit 18:1)

Ar 1588 , 1.; 180 volt., A. (translator); itto, ..., red.

[Growing of hybrid turnips] Hibridkelu audzesana. Riga,

[atvijas Valsto izd ba, 1965. 91 p. [In Latvian]

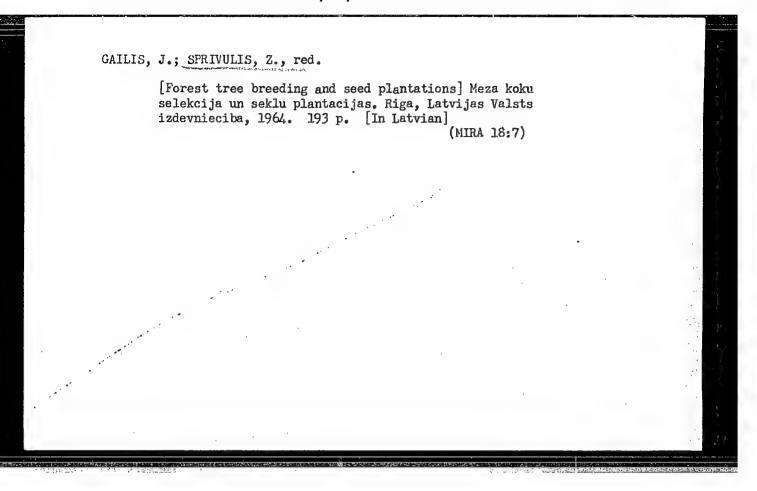
(HERA 18:1)

OZOLS, J.; SFRIVULIS, Z., red.

[Mechanization of legume culture] Paksaugu audzesanas
mehanizacija. Riga, Latvijas Valsts izd-ba, 1963. 108 p.

[In Latvian]

(MIRA 18:3)



"Cocialist Sevelopment of Good-using Industries", 1. 29, (IFF, Vol. 1, No. 1, N

SPROCK, Vitazoslav, prof., inz.

Termination of the first five-semester course at the Higher School of Forestry and Woodworking. Drevo 18 no.5:197-198 My *63.

1. Vyšoka skola lesnicka a drevarska, Zvolen.

LEWENFISZ-WOJNAROWSKA, T.; SPROCZYNSKI, K.

Antibiotics in the treatment of diarrheas. Pediat. polska 27 no.3:287-296 Mar 1952. (CLML 23:2)

1. Of the First Pediatric Clinic (Head--Prof. St. Popowski, M.D.) of Lods Medical Academy.

S/197/61/000/001/002/002 B124/B203

AUTHORS:

May, L., Sprogis, Yu.

TITLE:

New method of producing methyl triacetoxy silane

PERIODICAL: Izvestiya Akademii nauk Latviyskoy SSR, no. 1 (162), 1961, 71-76

TEXT: All procedures hitherto used to produce methyl triacetoxy silane can be divided into three steps: 1) acetylation of alkyl chloro silane by various acetylating agents, 2) distillation of the solvent under atmospheric pressure, and 3) vacuum distillation of alkyl acetoxy silane, possibly with the use of a dephlegmator. B. N. Dolgov, V. P. Davydova, and M. G. Voronkov consider the acetylation of alkyl chloro silanes by acetic anhydride at room temperature during 18-20 hr, subsequent slow distillation of the acetyl chloride, and fractionation of the residue under vacuum with the use of a dephlegmator, to be the most suitable method of producing alkyl acetoxy silanes; the methyl triacetoxy silane yield attains up to 70% of the theory. K. A. Andrianov, A. A. Zhdanov, and A. A. Bogdanova obtained methyl triacetoxy silane from methyl

New method of producing ...

S/197/61/000/001/002/002 B124/B203

trichloro silane and acetic anhydride by continuous distillation of the acetyl chloride by a dephlegmator and a descending cooler with a yield of 78% of the theory. The authors' experiments showed that a yield of about 70-75% of the theory can be attained with the use of all variants mentioned for the acetylation of methyl chloro silane. Benzene, toluene, carbon tetrachloride, 1,2-dichloro ethane, and ether were studied as solvents; the acetylation of methyl trichloro silane was most efficient by means of glacial acetic acid in benzene, CCl₄, or 1,2-dichloro ethane (70-75% yield of the theory). The dependence of the boiling point of methyl triacetoxy silane on pressure in vacuum distillation was determined (Fig. 1). In the distillation (which must be repeated) under vacuum or atmospheric pressure, 1,3-dimethyl-1,1,3,3-tetraacetoxy siloxane is formed by means of intramolecular condensation, and sometimes polymerizes to a resinous substance. This also leads to reduced yields. Therefore, it is more convenient to recrystallize the product from the reaction mixture, the best solvents being the aliphatic hydrocarbons of petroleum (petroleum ether, benzine, kerosene) and, among them, benzine. Acetylation is best carried out at 66 - 67°C (boiling point of methyl trichloro silane), which guarantees Card 2/5

[/

New method of producing ...

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an efficient condensation of vapors. With the use of benzine as a solvent in the acetylation of methyl trichloro silane, the reaction mixture forms two distinctly separated layers after filtration. Crystallization begins immediately, and is concluded after 1-6 hr (depending on the volume of the crystallized fraction and the type of precipitation). Fig. 2 shows a typical crystallizate from benzine (pure liquid methyl triacetoxy silane): The formation of layers in the filtrate also occurs in kerosene, but yield and purity of the product are lower. Under optimum conditions, the yield in the procedure described attains 80-86% of the theory; it depends on the time of heating, the amount of solvent, the conditions of filtration and rewashing, the time of cooling, etc. The degree of purity of the crystalline product is 95-98%. Among all known methods, the one described is the simplest, most economical, and most suitable for application in the industry. There are 3 figures and 23 references: 5 Soviet-bloc and 16 non-Soviet-bloc.

ASSOCIATION: Institut khimii AN Latv. SSR

(Institute of Chemistry of the AS Latviyskaya SSR)

SUBMITTED:

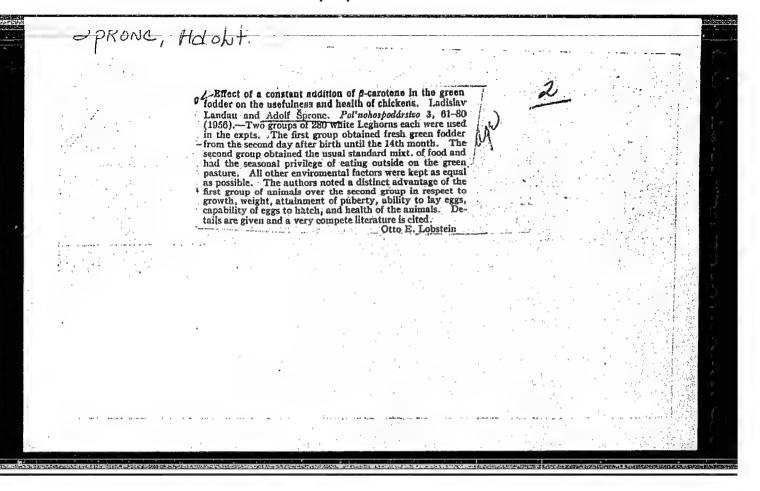
July 21, 1960

Card 3/5

MAY, L. [Maijs, L.]; SPROGIS, Yu. [Sprogis, J.]

New method for obtaining methyltriacetoxysilane. Vestis Latv ak no.1: 71-76

1. Institut khimii AN Latviyskoy SSR.



h -	: CZECHOSLOVAKIA : Farm Animals. Q-4 Domestic Birds. : Ref Zhur-Biol., Fo 10, 1958, 74134	The state of the s
Author Institut, Title Orig Pub.	: Landau, Ladislav; Marcinka, Kamil; Sprone,* : The Helationship between the quantity of Provitamin and Vitamia A in the Egg Wolk and the Latching of Chicks in Incubation. : Polnospoderstvo, 1957, 4, No 4, 641-664	
Abstract	: The first group (control) received the standard protein mixture, the 2cd received the same mixture + fodder cabbage as desired + 1,000-2000 of Y(0 -carotene daily, the 3rd received the standard protein mixture + 3000 interactional units of exercited assolved in vegetable oil. The results of the experisonts are (in the order of groups): average aggregation capacity 63.33; 60.37, and 62.23 eggs; the content of vitamin A in 100 g of egg yolk: 602.8; 1087.4 and 976.8 international	And the second s
Jexd:	1/3 *Adolf	

: 72 CSTOTAKIA dalogory : Fand Animals. 9-4 Po Mostic Linds. : Rel Zhur-Biol., No 16, 1958, 74134 Abs. Jour Author Institut. : Frule Orig Pab. units, and f-carotons: 18.8; 67.1 and 19.27; chicks hatched from the number of laid eggs: 64.3; 63.2 and 79.1 percent; chicks hetched from fertilized eggs: 72.4; 74.4 and 85.4 percent; dead embryos according to data of the Abstract 1st and 2nd transillumination: 14.4; 12.0 and 4.0 resent; the number of chicks perished during the first 5 days and chicks not able to survive: 7.54; 4.98 and 3.82 percent; the content of vitamin A in 1 g of the liver of peri-2/3 Card: 76

SPRONOV, F.F.

Appearance of helminthophage in soil carnivorous Hyphomycetes in Turkmenia. Doklady Akad. nauk SSSR 81 no.5:973-976 11 Dec 51. (CIML 21:5)

- 1. Presented by Academician K.I. Skryabin 15 September 1951.
- 2. Institute of Malaria and Medical Parasitology Turkmen SSR.

"Health Center." p. 3,
(ZDRAVEN FIGHT, No. 49, Jec. 1954, Sofiya, Bulgaria)

SU: Monthly List of East European Accessions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.

SPROSTRANOV, B.I.

Case of Q fever, Suvrem, med., Sofia 8 no.4:93-94 1957.

1. Iz Okoliisknta bolnitea - gr. Breznik, Terapevtichno otdelenie (Zevezhdashch: B. I. Spostranov).

(Q FSVER, case reporte, (Bul))

SPROSTRANOV, B.I. (Bolgariya)

Electrocardiographic changes during the sensitization period and in anaphylactic shock. Klin.med. 35[i.e.34] no.1 Supplement:12-13 Ja '57. (MIRA 11:2)

1. Iz terapevticheskogo otdeleniya (zav. B.I.Sprostranov) Okoliyakoy bol¹nitsy v g.Breznik. (AUSGULTATION)

KWIATKOWSKA, Barbara; SPRUCH, Tadeusz; ZBROJA, Wanda

Diagnostic errors in cases of anomalous positions of the kidney. Pol. tyg. lek. 17 no.20:792-795 14 My '62.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych AM w Lublinie; kierownik: prof. dr med. Stanislaw Liebhart i z I Kliniki Chirurgicznej AM w Lublinie; kierownik: prof. dr med. Tadeusz Jacyna Onyszkiewicz.

(KIDNEYS abnorm)

S.RHOH, Tadeuso; MARIONEL, Stanishov

Asymptometric retroperitoneal rupture of the duodenom with

unusual complications. Pol. tyg. lek. 18 no.52:197. -

1. Z I Kliniki Chirurgicznej Akademii Medycznej w Lublinie (kierownik: prof. dr med. T. Jacyna-Cnyszkiewicz).

CZOCHRA, Marian; SPRUCH, Tadeusz

Asymptomatic perforation of gastric ulcer. Pol. tyg. 1ek. 19 no.1:27-29 1 Ja'64

1. Z Kliniki Chirurgicznej AM w Lublinie; kierownik: prof. dr. med. T.Jacyna-Onyszkiewicz.

PANECKA, Anna; SPRUCH, Tadeusz

Result of the treatment of acute pancreatitis with trasylol. Pol. tyg. lek. 19 no.45:1729-1732 N 9'64

1. Z I Kliniki Chirurgicznej Akademii Medycznej w Lublinie (Kierownik: prof. dr. T. Jacyna-Chyszkiewicz).

.L 8478-66 EVT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1)

ACC NR: AP5028518

SOURCE CODE: UR/0286/65/000/020/0099/0099

AUTHORS: Gil'man, L. M.; Sprude, I. K.

٠,

ORG: none

TITLE: A direct action pressure regulator. Class 42, No. 175753 /announced by Central Engineering Bureau of Armature Construction (Tsentral'noye konstruktorskoye byuro armaturostroyeniya)

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 99

TOPIC TAGS: pressure regulator, mechanical engineering

ABSTRACT: This Author Certificate presents a direct action pressure regulator containing a directing membrane mechanism with a regulating device, the regulating organ in the form of a ball valve, and a regulated throttle with a valve. The throttle is mounted in line between the chamber above the ball and a pipe behind the regulating organ. To produce a low coefficient of hydraulic resistance, the chamber above the ball is connected to the chamber of the directing mechanism, while the membrane is rigidly connected to the valve of the throttle.

SUB CODE: 13. 14/ SUBM DATE: 25Mar64

GYK. Card 1/1

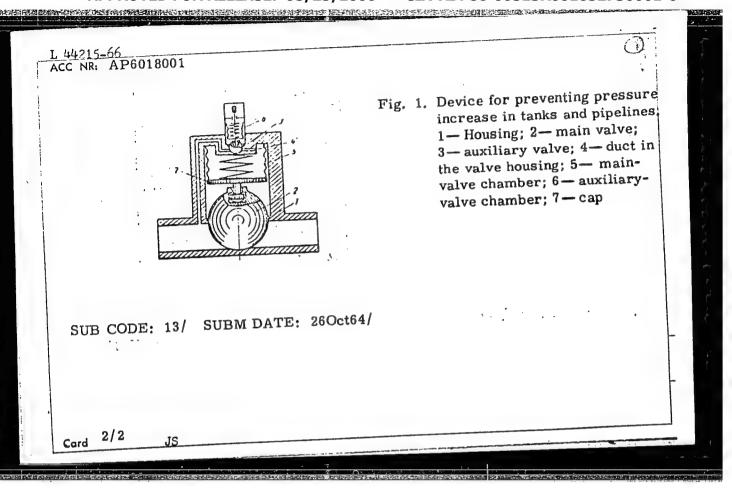
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SOURCE CODE: UR/0413/66/000/010/0115/0115 (N) AP6018901 ACC NRI INVENTOR: Gilman, L. M.; Sprude, I. K. ORG: none TITLE: Device for the prevention of pressure increase in tanks and pipelines. Class 47, No. 181931 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, TOPIC TAGS: pressure control, pressure valve, pipeline, tank, hydraulic 115 ABSTRACT: An Author Certificate has been issued for a device preventing pressure increase in tanks and pipelines. The device includes a main spring-valve and an with auxiliary spring-valve. In order to increase operating reliability and reduce hydraulic resistance, both valves are spherical and mounted on the elastic walls of the chamber. The main-valve chamber cap has a port connecting it with the upper chamber of the valve housing (see Fig. 1). Orig. art. has: 1 figure. UDC: 621, 646, 82 Card 1/2



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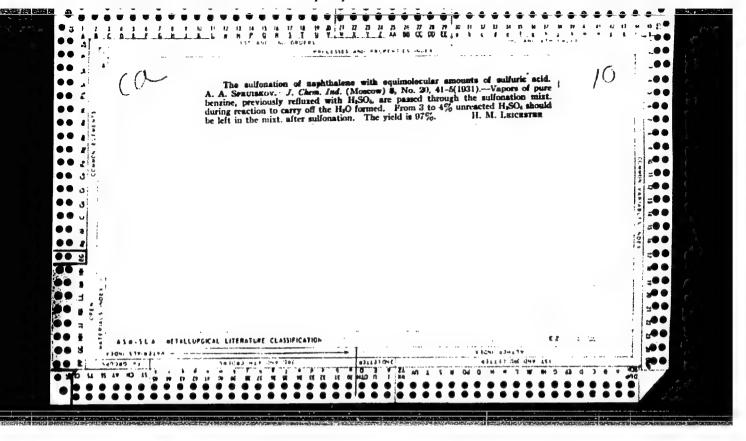
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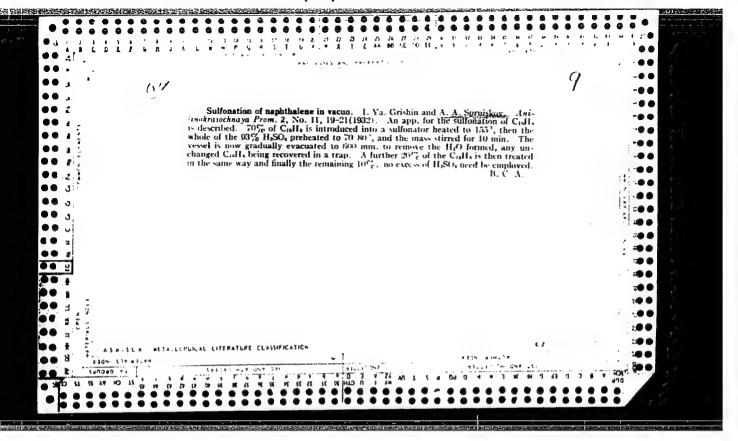
eff. of decerebration on reactions to methylthiouracil & thyrotropic hormone in chicks)

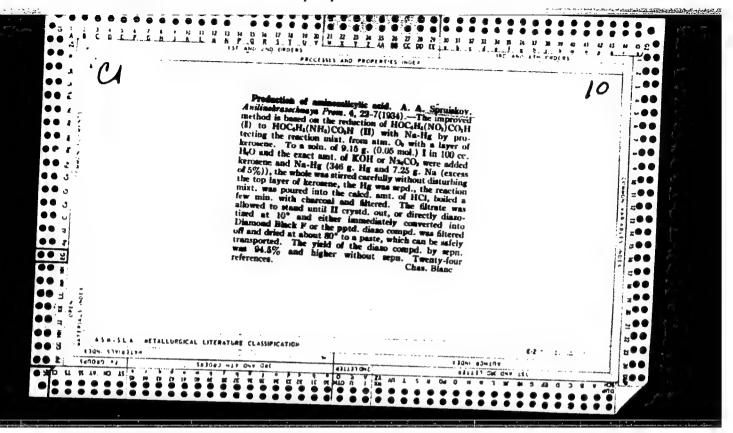
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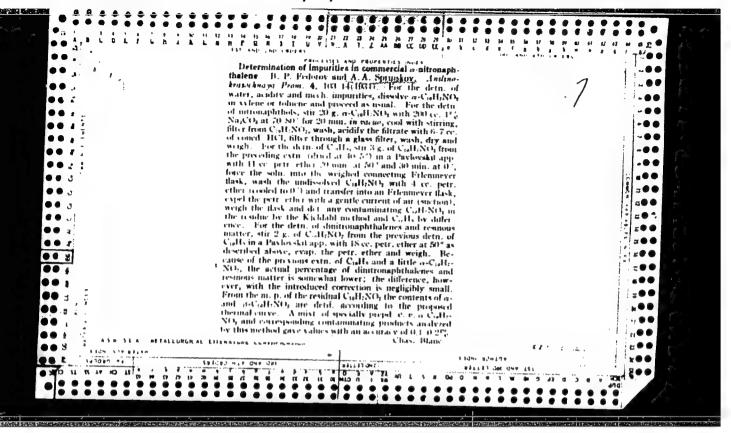
methylthiouracil, eff. on thyroid in decerebrated chicks.)

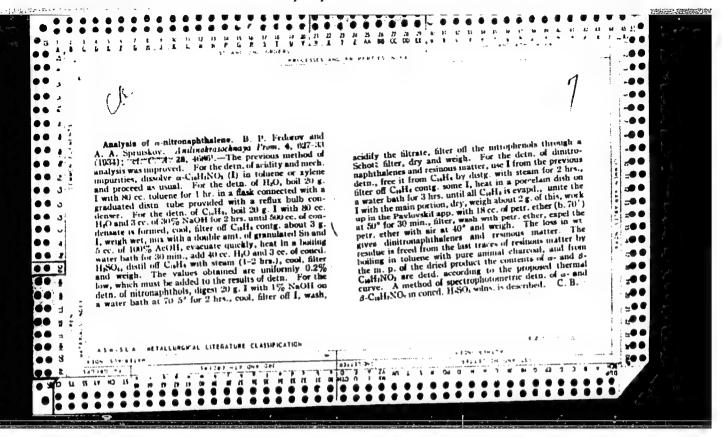
(PITUITARY GLAND, ANTERIOR, hormones, thyrotropic hormone, eff. on thyroid in decerebrated chicks)

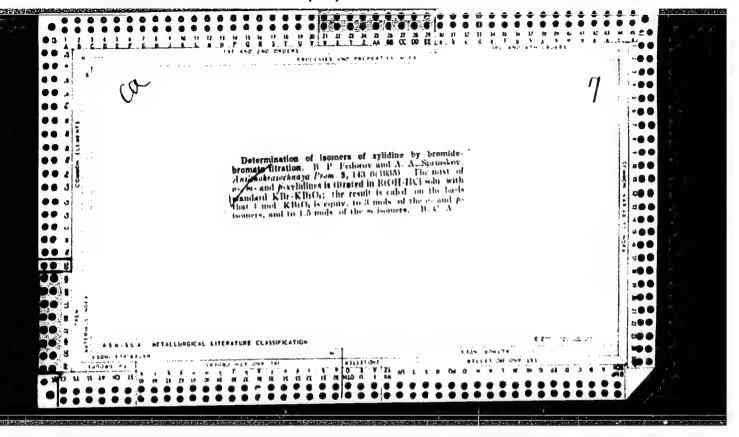


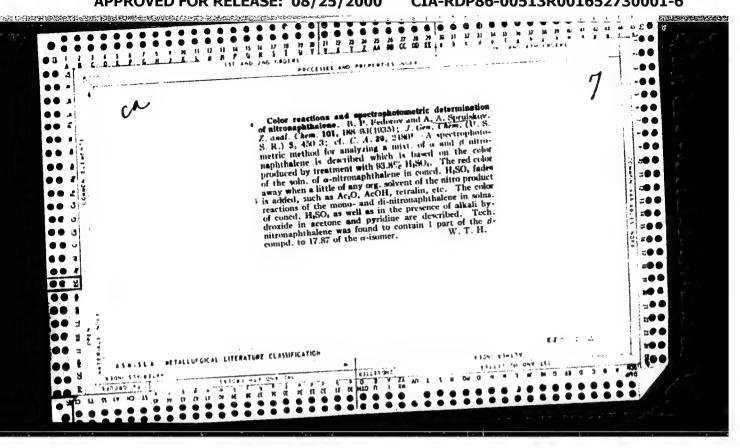


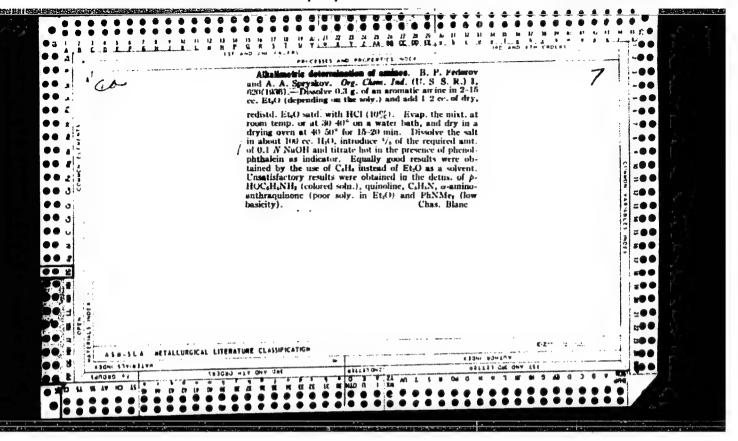


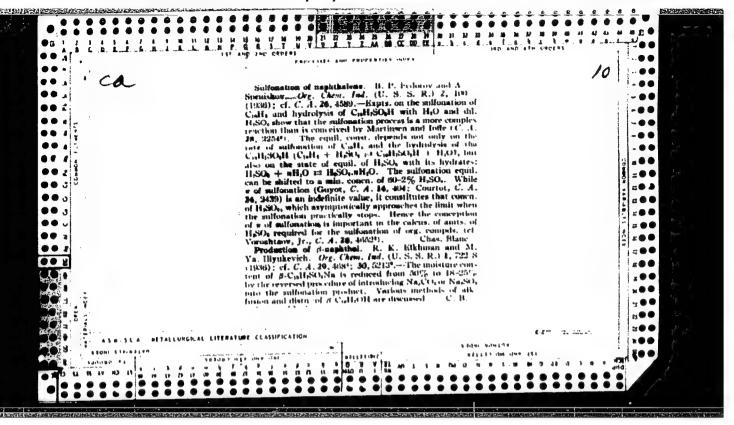


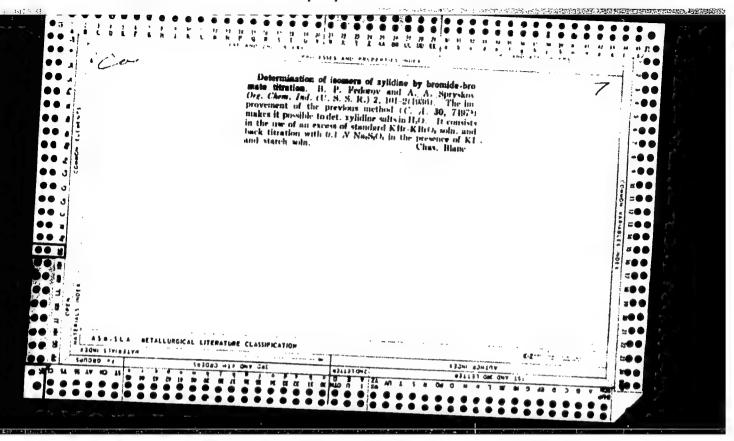


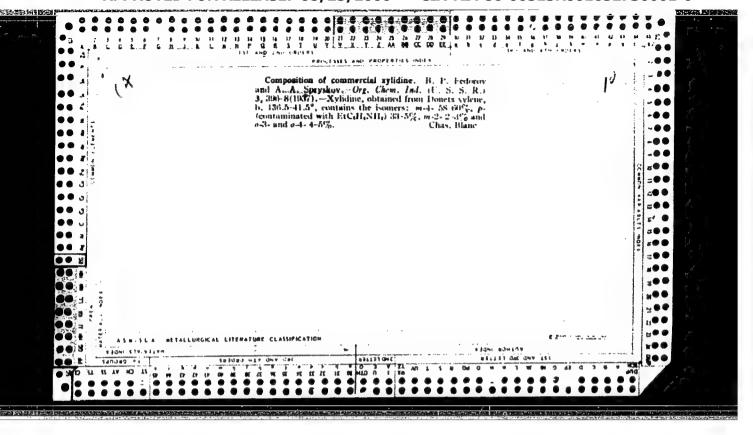


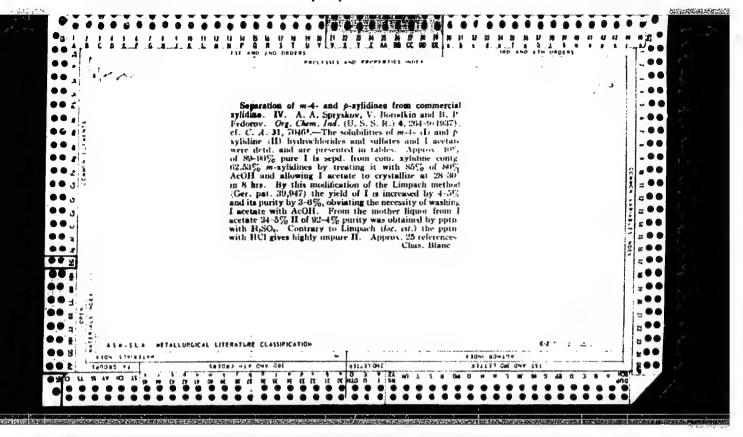


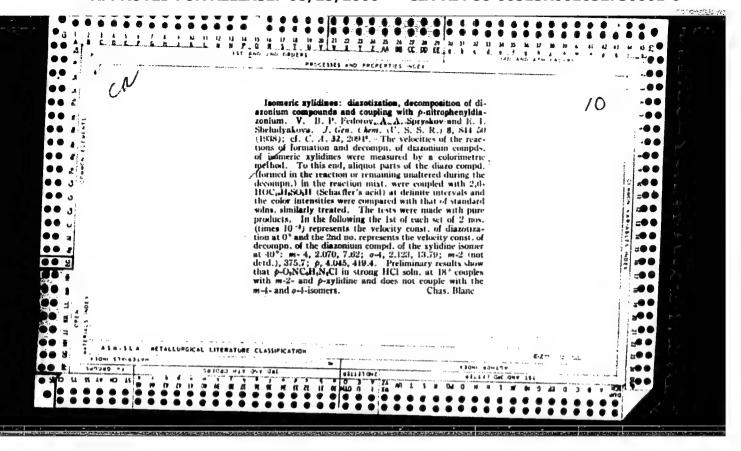


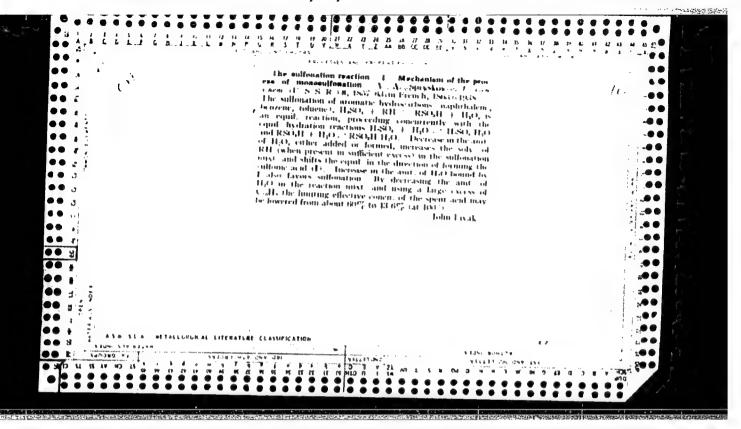




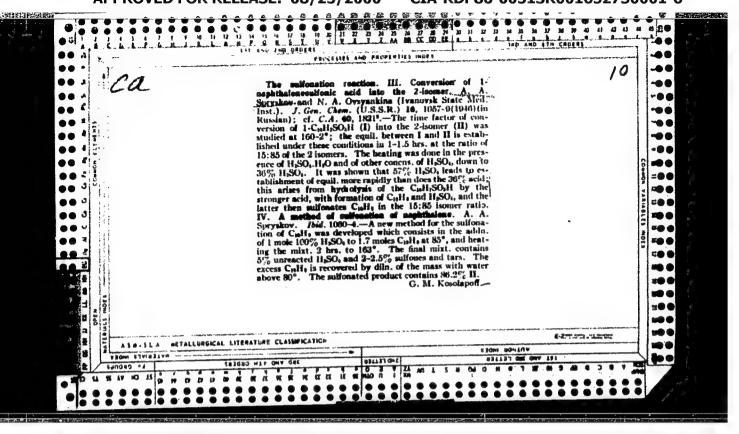






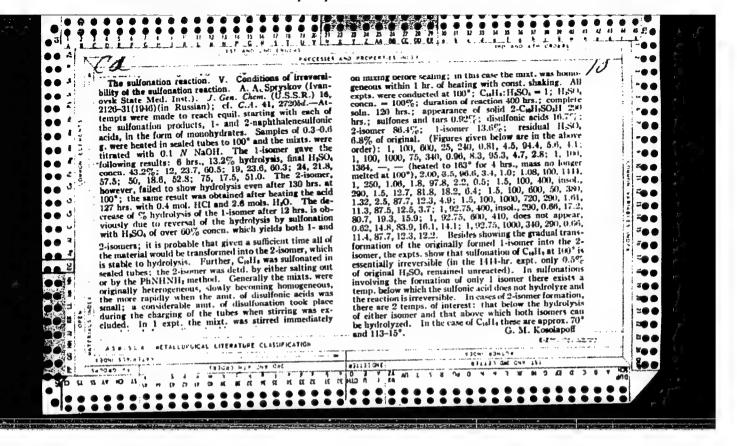






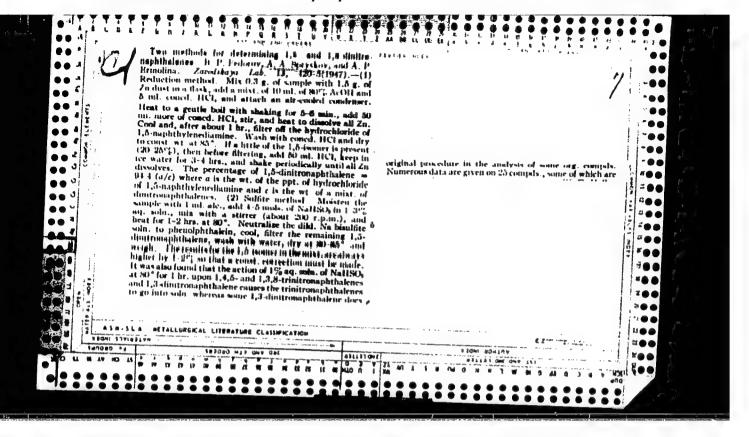
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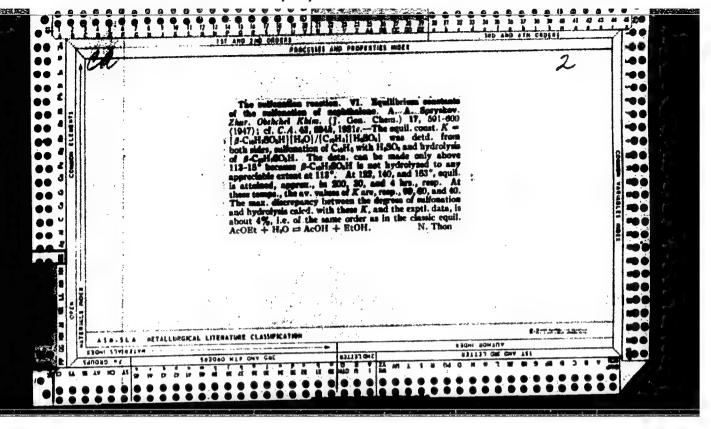
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USSR/Chemistry - Sulfonation Chemistry - Naphthalene

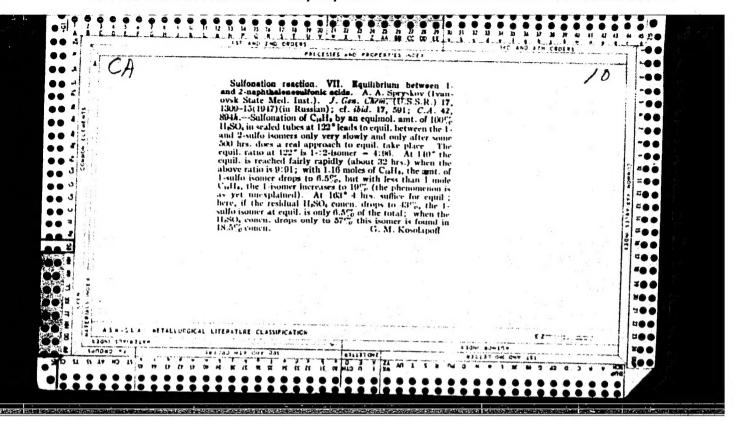
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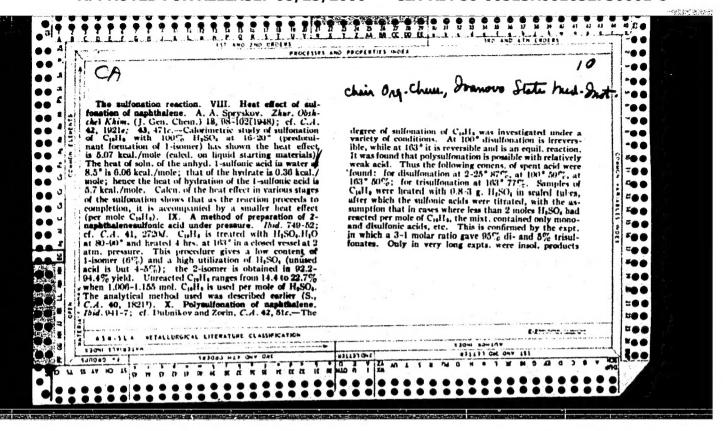
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"Zhur Obshch Khim" Vol XVII, No 3

Values of the equilibrium constants, and data on the equilibrium condition.

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.. detected. The following results were obtained with 100% H₈SO₄: at 20° 0.18 mole C₁₄H₄ per mole H₈SO₄ in 0.25 hr. gave 84% mono- and 10% disulfonic acids; 0.1 mole C₁₄H₄ per mole H₈SO₄ in 5.5 hrs. gave 86 and 14%, resp.: 0.37 mole in 11,240 hrs. at 5-25° gave 78 and 22%, resp.; while 0.12 mole under the same conditions gave 98% diand 2% trisulfonic acids. At 100° the results were: 0.03 mole C₁₄H₄ per mole H₈SO₄ in 40 hrs. gave 90% diand 10% trisulfonates, spent acid conc. 98.7%; 0.10 mole in 165 hrs. gave 90 and 10%; resp., 94.8% spent acid; 0.42 mole in 40 hrs. gave 54% mono- and 46% disulfonates, 76.9% spent acid; 0.5 mole in 24 hrs. gave 75% mono- and 25% diacid, spent acid 76.5%, while in 1570 hrs. this gave 43% mono- and 57% disulfonic acid, with 59% spent acid concon. At 130° the results were: 0.5 mole C₁₄H₄ in 1 hr. gave 80% mono- and 20% disulfonic acids, 78% spent acid; in 6 hrs. 71% mono- and 29% disulfonates, 75.3% spent acid; 0.2 mole C₁₄H₄ in 1 hr. gave 80% mono- and 20% disulfonates, 98% di- and 2% trisulfonic acids, with spent acid oneon- and 95% disulfonates, 75.3% spent acid; 0.2 mole C₁₅H₄ in 3 hrs. gave 98% di- and 2% trisulfonic acids, with spent acid of 80.1% concn., while 0.25 mole in 3 hrs. gave 5% mono- and 95% disulfonic acids, with 55.3% spent acid. At 163° 0.10 mole C₁₅H₄ per mole H₁₅O₄ in expts. ranging up to 36 hrs. gave a max. of 65% tri- and 35% disulfonation at 210 hrs., with 88.5% spent acid conca.; . .. with 0.3 mole C₁₀H₃ (up to 210 hrs.), the 25-nr. run gave 04% mono- and 36% disulfonation (62.6% apent acid) when 78.3% H₃SO₆ was used, while the 100% acid gave in 47 hrs. 1% mono- and 90% disulfonates, with 78.6% apent acid conen., and at 210 hrs. 95% dis- and 8% trisulfonates were obtained (apent acid, 77.4%); when 0.45 mole C₁₀H₆ was used the max. values were at 210 hrs. 23% mono- and 77% disulfonates, with 57.8% apent acid; further increase of the amt. of C₁₀H₁₆ lead to the progressively larger amts. of monosulfonates. Heating 0.2534 g. 2,6-disulfonyl chloride with 0.1320 g. H₂O 100 hrs. at 163° gave 12.2% hydrolysis of the sulfo group (cstd. by SO₄ detn.), while in a similar expt. the 2,7-inomer gave 16.8% hydrolysis; this shows that disulfonation is no longer reversible at this temp. Sulfonation of 1- and 2-sulfonaphthalenes at 100° with 0.18-0.4 mole per mole H₃SO₄ for 15-1227 hrs. showed that 95% H₃SO₅ is capable of introducing a 3rd sulfo group into the mol.; thus, the apent acid conen. was 95%, when 0.18 mole 1-C₁₀H₂SO₄H and 1 mole 100% H₃SO₄ were kept at 100° 167 hrs., resulting in formation of 78% di- and 22% trisulfonic acids; with the 2-isomer, using 0.21 mole with 88.6% H₃SO₆, 15 hrs. gave 3.6% mono- and 96.4% disulfonates, with spent acid conen. of 82.7%. G. M. Kosolapoff . .. •• ••

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A. A. Spryskov, The study of the reaction of sulfonation. XI. The obtaining of monosulfo acid during sulfonation of benzene with fuming sulfuric acid. P. 1370.

A method has been worked out for the sulfonation of benzene consisting of different weight amounts of benzene and 23-27% of fuming sulfuric acid are mixed in the cold and then heated while stirring in a closed vessel at 162-163° for nine hours.

Chair of Organic Chemistry of the Ivanov State Medical Institute July 4, 1947.

SO: Journal of General Chemistry (USSR) 18, (80) No. 7 (1948).